Amendments to the Claims

- 1. (Original) A process for producing a pitch-based carbon fiber sliver, comprising: providing a pitch-based carbon fiber mat comprising a mass of piled-up pitch-based carbon fibers of which fiber extension directions are aligned preferentially in one direction; and directly subjecting the carbon fiber mat to drawing and carding by means of a carding machine while moving the mat in said one preferential alignment direction.
- 2. (Original) A production process according to Claim 1, wherein the pitch-based carbon fiber mat has a resistance (ρ_L) in the preferential extension direction and a resistance (ρ_W) in a direction perpendicular to the preferential extension direction, providing a ratio ρ_L/ρ_W of at most 0.25.
- 3. (Currently amended) A production process according to Claim 1-or-2, wherein the pitch-based carbon fiber mat contains at least 30 wt.% of carbon fibers having a fiber length of at least 100 mm and satisfies the following relations (1) and (2) with respect to M_{100} (N/tex) representing a tensile strength for a test length of 100 mm and M_{200} (N/tex) representing a tensile strength for a test length of 200 mm, respectively in the preferential extension directions of the piled carbon fibers.

$$1.7 \times 10^{-3} \le M_{10 \ 0} \le 1.2 \times 10^{-2}$$
 (1)
 $0.4 \le (M_{200}/M_{100}) \le 1$ (2)

- 4. (Currently amended) A production process according to any one of Claims 1-3 Claim 1, wherein the pitch-based carbon fibers are isotropic pitch-based carbon fibers.
- 5. (Currently amended) A production process according to any one of Claims 1-4 Claim 1, wherein the pitch-based carbon fiber mat has been obtained by melt-spinning a petroleum or coal pitch to form pitch fibers, piling the pitch fibers on a horizontal belt

so as to extend preferentially in a direction of progress of the horizontal belt conveyer to form a pitch fiber mat, and then infusibilizing and calcining the pitch fiber mat.

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- 6. (Currently amended) A production process according to any one of Claims 1—5 Claim 5, wherein the pitch fiber has been obtained by melt-spinning the petroleum or coal pitch by means of a centrifugal spinning machine having a horizontal rotation axis.
- 7. (Currently amended) A production process according to any one of Claims 1-6 Claim 1, wherein the carding machine is a large-width guile having a pair of front rollers including at least one roller surfaced with an elastic material.
- 8. (Currently amended) A production process according to any one of Claims 1—7. Claim 1, further including a step of doubling and drawing the sliver after the carding by the large-width guile by a drawframe.
- 9. (Currently amended) A process for producing a pitch-based carbon fiber spun yarn, comprising: drawing and twisting a pitch-based carbon fiber sliver obtained through a production process according to any one of Claims 1—8-Claim 1 by means of a spinning frame to produce a pitch-based carbon fiber spun yarn containing at least 3 wt.% of fibers having a fiber length of at least 150 mm, a number of primary twist of 50 400 turns/m, and a tensile strength of at least 0.10 N/tex.